

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P838010

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4LO-40-120-EDD-90**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P838010
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-4LO-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

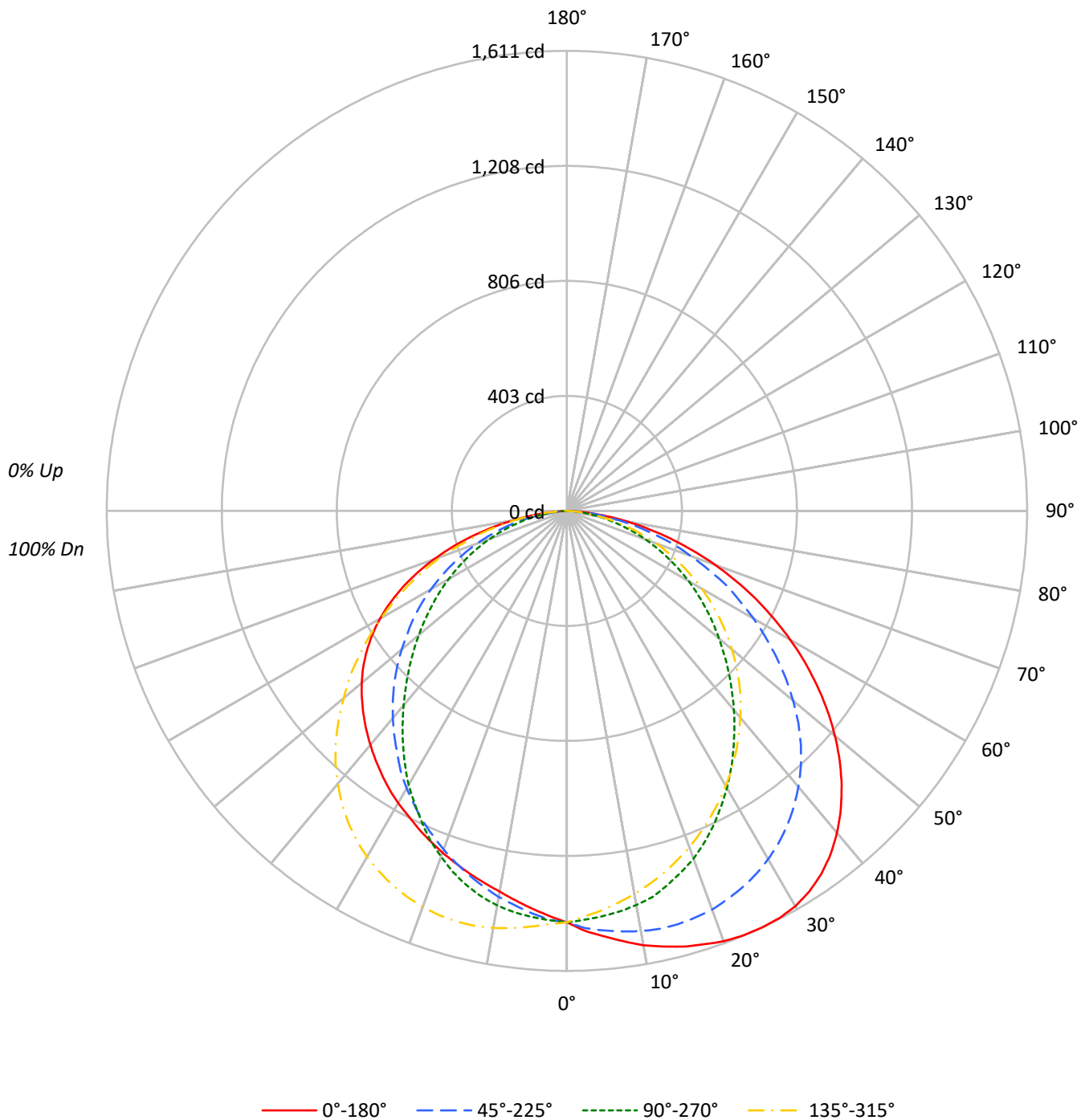
Lumens per Lamp: N/A
Luminaire Lumens: 4226.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3876	3876	3876	3876
5°	4040	3848	3776	3855
10°	4220	3829	3699	3834
15°	4401	3780	3663	3781
20°	4593	3711	3647	3690
25°	4783	3608	3647	3571
30°	4968	3482	3671	3443
35°	5100	3339	3708	3286
40°	5168	3195	3759	3123
45°	5178	3050	3833	2973
50°	5129	2910	3926	2833
55°	5023	2781	4014	2704
60°	4865	2646	4067	2577
65°	4647	2490	4046	2433
70°	4342	2308	3902	2266
75°	3906	2058	3581	2047
80°	3312	1723	3009	1750
85°	2303	1142	1908	1173

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.2
10°-20°	396.1	9.4
20°-30°	607.0	14.4
30°-40°	738.0	17.5
40°-50°	767.2	18.2
50°-60°	693.0	16.4
60°-70°	526.9	12.5
70°-80°	293.7	7.0
80°-90°	67.6	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1139.8	27.0
0°-40°	1877.8	44.4
0°-60°	3338.1	79.0
0°-90°	4226.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1440	1440	1440	1440	1440	
5°	1496	1425	1398	1427	1496	144
15°	1580	1357	1315	1357	1580	448
25°	1611	1215	1228	1203	1611	744
35°	1552	1016	1129	1000	1552	970
45°	1361	801	1007	781	1361	1048
55°	1071	593	856	576	1071	956
65°	730	391	635	382	730	721
75°	376	198	344	197	376	399
85°	75	37	62	38	75	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5
2.5°	1472.5	1450.9	1451.3	1470.1	1455.7	1462.7	1442.5	1450.3	1447.9	1449.6	1433.1
5°	1495.6	1472.5	1472.1	1488.2	1472.1	1475.1	1449.6	1454.6	1447.3	1442.5	1424.7
7.5°	1520.2	1497.0	1494.6	1508.7	1487.6	1485.2	1457.0	1457.0	1443.6	1431.8	1415.0
10°	1544.4	1520.5	1517.5	1528.2	1502.0	1494.3	1460.0	1454.6	1436.8	1419.4	1401.2
12.5°	1562.5	1538.3	1536.0	1542.7	1513.1	1499.0	1460.0	1449.6	1423.4	1398.9	1384.8
15°	1579.6	1554.8	1548.4	1551.8	1517.8	1499.0	1455.3	1439.2	1405.6	1373.3	1356.9
17.5°	1591.7	1567.9	1561.5	1561.2	1520.2	1493.3	1445.2	1423.1	1382.7	1343.8	1327.3
20°	1603.8	1580.0	1571.9	1565.9	1519.5	1485.6	1430.5	1400.5	1353.5	1309.8	1296.0
22.5°	1609.9	1585.4	1576.6	1567.5	1515.1	1471.4	1412.3	1374.3	1320.6	1268.5	1257.1
25°	1610.9	1585.7	1576.3	1563.2	1506.4	1454.6	1388.8	1342.7	1282.6	1224.8	1215.1
27.5°	1608.2	1580.7	1571.2	1555.5	1493.3	1434.1	1360.9	1306.8	1242.3	1178.4	1168.0
30°	1598.8	1570.9	1561.8	1541.3	1474.8	1408.9	1330.3	1266.8	1197.6	1129.7	1120.6
32.5°	1580.0	1552.8	1545.4	1524.9	1454.6	1379.7	1294.7	1223.8	1148.2	1083.3	1069.9
35°	1552.4	1525.2	1520.5	1499.0	1426.4	1344.8	1255.7	1176.8	1095.8	1029.6	1016.5
37.5°	1516.5	1493.6	1486.6	1465.4	1393.2	1305.1	1211.0	1125.7	1042.3	971.1	963.0
40°	1471.1	1449.6	1444.2	1425.4	1354.5	1261.1	1162.6	1072.9	987.2	921.0	909.6
42.5°	1419.4	1399.2	1396.2	1376.7	1306.8	1212.4	1110.2	1018.2	929.8	865.9	854.5
45°	1360.6	1341.1	1340.4	1321.9	1254.7	1158.3	1055.1	962.7	873.7	807.5	801.4
47.5°	1295.7	1278.2	1278.2	1261.1	1196.6	1098.8	998.3	904.9	817.2	758.7	748.0
50°	1225.1	1208.7	1203.6	1195.2	1132.4	1033.9	938.5	848.5	761.4	705.6	695.2
52.5°	1149.9	1135.8	1139.1	1123.7	1062.8	966.4	878.0	785.0	705.3	654.6	644.2
55°	1070.6	1050.4	1053.4	1047.7	990.3	896.8	810.2	732.5	650.2	602.5	592.7
57.5°	988.2	962.0	972.8	969.4	913.0	825.6	748.0	673.1	595.4	551.4	542.0
60°	903.9	878.7	889.8	886.8	833.7	754.4	683.8	614.3	541.0	501.0	491.6
62.5°	817.2	794.0	804.1	801.8	753.0	681.5	620.0	556.1	486.2	450.3	441.5
65°	729.8	707.7	716.7	715.1	670.0	615.6	554.4	496.0	431.1	399.9	391.1
67.5°	640.5	620.0	628.4	628.4	587.0	534.9	488.6	435.1	377.0	350.1	342.1
70°	551.8	532.6	540.0	539.3	504.4	462.0	422.0	374.3	322.2	300.1	293.3
72.5°	462.4	445.6	452.3	451.6	422.4	395.2	355.5	314.2	268.8	251.0	245.0
75°	375.7	359.9	366.3	365.6	341.7	316.2	289.7	255.4	216.4	204.0	197.9
77.5°	293.0	276.9	282.3	282.3	264.8	246.3	225.1	198.6	171.0	157.6	153.2
80°	213.7	206.0	203.3	203.6	191.9	179.8	169.0	143.5	123.3	114.2	111.2
82.5°	140.5	134.1	131.4	132.1	125.3	117.9	111.2	93.4	80.0	74.6	72.9
85°	74.6	69.9	67.5	69.2	67.9	63.8	60.5	48.4	40.0	38.0	37.0
87.5°	23.5	20.5	18.8	24.9	21.2	18.8	18.1	14.4	11.1	11.1	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5
2.5°	1438.5	1438.5	1425.4	1422.4	1421.0	1422.7	1409.6	1407.3	1426.1	1419.7	1405.2
5°	1427.1	1426.4	1407.9	1404.6	1404.6	1402.6	1387.8	1384.4	1403.2	1397.9	1382.1
7.5°	1413.0	1411.0	1389.1	1386.8	1383.4	1382.1	1365.6	1363.2	1379.4	1376.0	1361.2
10°	1395.8	1393.8	1368.0	1366.3	1362.6	1359.9	1344.4	1342.7	1359.2	1353.8	1342.1
12.5°	1373.3	1369.6	1343.1	1341.4	1338.4	1337.4	1322.3	1321.6	1339.7	1334.3	1321.9
15°	1343.8	1340.7	1311.2	1311.8	1312.2	1312.2	1300.1	1299.4	1317.2	1314.9	1301.4
17.5°	1311.2	1307.1	1278.9	1280.9	1283.3	1286.0	1276.6	1278.2	1297.0	1294.0	1281.9
20°	1274.2	1270.2	1242.6	1248.3	1253.4	1258.7	1252.7	1257.4	1274.9	1273.5	1264.5
22.5°	1232.9	1228.8	1203.3	1212.0	1220.4	1230.5	1227.8	1233.2	1251.7	1251.4	1243.3
25°	1182.5	1183.5	1161.0	1171.7	1185.8	1199.9	1200.9	1209.7	1230.2	1228.2	1220.8
27.5°	1135.4	1136.8	1112.9	1131.1	1149.9	1168.0	1172.4	1184.5	1205.3	1203.6	1197.3
30°	1086.0	1087.7	1064.5	1089.4	1112.2	1134.4	1143.8	1160.3	1181.5	1181.5	1174.7
32.5°	1034.6	1037.6	1013.4	1046.7	1073.3	1099.1	1115.6	1132.7	1156.9	1156.3	1150.5
35°	981.9	985.2	963.0	1005.4	1031.9	1063.5	1084.0	1106.9	1128.4	1128.7	1124.3
37.5°	928.1	932.1	912.0	958.3	988.6	1025.9	1052.1	1074.9	1098.8	1100.1	1096.1
40°	874.7	879.0	861.6	906.3	944.6	986.2	1016.5	1043.4	1069.6	1070.2	1067.5
42.5°	821.2	825.9	812.8	856.5	899.9	944.6	980.2	1010.8	1037.6	1039.3	1036.3
45°	769.2	773.2	763.8	811.5	853.2	901.9	942.9	977.5	1004.7	1007.1	1006.1
47.5°	717.4	721.1	712.7	756.4	804.4	856.2	903.6	941.9	970.8	973.5	972.8
50°	666.7	669.7	660.6	706.3	754.0	809.1	858.5	902.9	935.2	937.8	937.5
52.5°	616.3	619.3	611.6	659.6	703.0	761.1	814.9	862.9	894.8	898.9	899.5
55°	567.5	568.9	562.8	608.9	650.9	711.7	773.5	820.2	852.2	855.5	857.5
57.5°	518.8	519.2	514.1	558.1	598.5	660.6	725.5	774.5	804.8	808.1	811.2
60°	470.4	470.1	464.4	507.1	545.7	607.2	674.7	723.5	752.7	755.7	759.7
62.5°	422.4	421.4	416.3	455.6	491.9	552.8	620.6	667.7	695.6	697.6	703.0
65°	374.7	373.7	369.0	405.2	438.2	496.3	562.8	607.5	632.7	635.4	634.4
67.5°	327.6	325.6	321.9	354.5	384.4	438.2	502.0	544.7	565.5	567.9	574.3
70°	280.6	278.2	269.8	304.4	330.6	378.7	438.2	476.1	493.6	496.0	495.0
72.5°	234.2	231.9	222.8	254.7	276.9	318.9	372.0	403.6	418.7	420.7	420.7
75°	189.2	187.8	182.1	206.3	224.8	259.1	304.1	330.3	342.1	344.4	343.8
77.5°	145.8	144.8	139.1	159.9	174.4	199.9	236.2	256.7	265.5	268.1	273.9
80°	104.5	104.2	95.1	115.6	122.0	143.5	170.0	185.8	190.5	194.2	198.3
82.5°	66.9	67.2	58.1	75.6	78.3	92.1	108.5	118.3	121.6	124.7	127.7
85°	32.6	33.9	28.9	40.0	40.3	47.4	54.4	58.1	59.5	61.8	64.5
87.5°	8.4	9.7	5.4	11.4	10.1	13.1	15.1	16.1	15.8	17.5	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5
2.5°	1410.0	1420.7	1415.3	1432.8	1439.5	1428.8	1447.6	1447.9	1434.5	1450.3	1459.0
5°	1388.1	1399.2	1395.8	1414.0	1422.4	1413.0	1435.8	1440.2	1427.1	1444.9	1459.0
7.5°	1365.9	1379.0	1374.7	1393.2	1403.2	1395.8	1420.4	1427.4	1417.3	1436.8	1455.7
10°	1346.8	1357.9	1353.2	1372.7	1381.4	1375.3	1399.5	1412.6	1403.2	1427.1	1449.6
12.5°	1328.0	1337.0	1331.7	1347.8	1356.2	1348.5	1378.0	1390.1	1383.4	1408.3	1437.2
15°	1303.8	1313.9	1306.5	1320.9	1327.3	1320.6	1344.8	1365.6	1357.2	1384.4	1416.3
17.5°	1285.3	1291.0	1280.9	1292.3	1296.0	1287.0	1311.5	1332.0	1325.9	1355.5	1392.5
20°	1264.8	1269.5	1255.4	1261.8	1261.4	1250.0	1272.5	1292.7	1288.6	1321.2	1363.2
22.5°	1241.9	1244.3	1227.8	1229.2	1228.5	1209.7	1229.8	1250.3	1248.7	1281.6	1328.6
25°	1217.7	1218.1	1196.9	1196.2	1188.8	1166.7	1184.5	1207.7	1202.6	1238.2	1287.6
27.5°	1193.9	1190.5	1165.0	1158.9	1147.2	1120.6	1136.4	1157.3	1154.2	1189.2	1244.0
30°	1168.4	1164.0	1132.7	1121.6	1104.5	1073.9	1087.0	1106.5	1108.2	1138.8	1196.2
32.5°	1144.2	1133.1	1098.5	1082.3	1060.8	1025.2	1032.3	1052.1	1054.8	1085.7	1144.8
35°	1112.9	1105.5	1062.8	1035.3	1014.1	975.1	982.5	996.3	1000.3	1030.6	1090.7
37.5°	1083.3	1071.6	1026.2	992.6	965.4	924.4	926.4	940.5	944.6	975.1	1034.6
40°	1052.8	1036.0	987.2	947.9	916.7	873.7	871.3	886.1	889.1	919.0	972.8
42.5°	1020.2	1000.0	945.2	902.2	866.3	822.6	817.9	830.6	834.0	863.2	916.0
45°	987.2	963.0	902.2	855.2	815.9	771.2	766.5	776.2	781.3	808.8	859.5
47.5°	952.3	924.1	857.9	805.4	764.8	720.1	714.4	724.1	728.2	755.4	803.4
50°	915.7	881.4	812.2	754.4	714.0	670.0	661.6	673.1	676.8	702.3	749.3
52.5°	875.3	837.4	763.4	703.0	662.6	620.6	610.6	621.6	626.0	650.9	694.2
55°	832.7	791.7	714.4	655.6	611.9	570.9	562.5	566.9	576.3	599.8	640.1
57.5°	784.6	744.0	662.6	602.8	560.8	521.5	514.5	518.5	527.2	550.1	586.4
60°	733.5	690.5	609.9	550.1	509.4	472.1	465.7	469.4	478.8	499.7	533.3
62.5°	683.1	634.7	555.4	496.0	459.0	424.4	422.7	421.4	430.1	450.3	479.8
65°	622.0	575.6	498.7	442.2	408.6	377.4	370.6	373.7	382.1	400.5	431.5
67.5°	556.5	514.5	440.5	388.4	358.5	330.6	324.9	326.3	335.0	351.1	378.0
70°	486.9	449.9	381.1	334.3	309.1	282.9	279.2	279.6	288.0	302.1	325.6
72.5°	414.0	380.7	320.9	280.9	260.1	241.3	237.9	233.9	241.6	253.7	273.9
75°	339.7	310.5	261.1	228.5	212.0	196.2	193.2	189.2	196.9	207.3	223.1
77.5°	264.8	241.3	203.0	177.8	165.0	153.2	150.5	146.2	153.9	161.6	174.1
80°	191.5	174.4	151.5	125.0	120.6	112.9	110.2	105.5	112.9	117.9	127.4
82.5°	123.7	112.2	99.1	80.6	80.0	74.3	72.9	67.5	74.3	77.3	84.3
85°	62.5	57.1	53.8	41.0	42.3	38.6	38.3	32.6	38.0	39.3	43.3
87.5°	17.8	18.8	16.8	10.1	12.8	12.1	12.1	8.7	12.1	12.1	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838010

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4LO-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5	1440.5
2.5°	1441.9	1447.6	1448.9	1448.6	1452.3	1472.5	1465.7	1472.5
5°	1445.2	1458.0	1461.4	1466.1	1472.1	1495.0	1487.6	1495.6
7.5°	1447.3	1466.4	1473.8	1482.9	1492.6	1518.2	1512.1	1520.2
10°	1447.3	1472.1	1482.9	1498.0	1511.1	1540.7	1535.0	1544.4
12.5°	1441.2	1473.1	1488.2	1509.4	1526.2	1558.1	1555.8	1562.5
15°	1428.8	1468.1	1488.9	1516.1	1537.0	1572.6	1571.6	1579.6
17.5°	1412.0	1459.3	1484.6	1518.8	1545.0	1585.0	1587.4	1591.7
20°	1390.8	1442.9	1475.8	1517.8	1550.7	1594.8	1597.8	1603.8
22.5°	1362.9	1423.1	1462.7	1513.4	1551.4	1598.8	1604.2	1609.9
25°	1330.0	1399.2	1445.6	1505.0	1548.1	1598.5	1605.9	1610.9
27.5°	1292.3	1368.3	1423.7	1491.6	1538.7	1593.1	1602.2	1608.2
30°	1248.7	1335.4	1398.9	1474.1	1525.9	1583.0	1592.7	1598.8
32.5°	1203.6	1299.1	1369.3	1451.6	1507.4	1566.9	1575.3	1580.0
35°	1154.6	1255.0	1333.7	1422.7	1483.5	1541.0	1547.4	1552.4
37.5°	1101.1	1207.3	1293.0	1390.1	1449.9	1505.0	1510.8	1516.5
40°	1046.0	1157.3	1247.3	1350.1	1410.0	1461.0	1467.1	1471.1
42.5°	990.6	1101.8	1198.6	1303.1	1362.6	1411.6	1415.3	1419.4
45°	934.5	1044.4	1143.8	1251.0	1309.8	1355.9	1357.2	1360.6
47.5°	877.4	984.9	1083.7	1191.5	1249.7	1291.7	1293.0	1295.7
50°	819.9	925.4	1019.5	1127.4	1184.1	1228.5	1222.5	1225.1
52.5°	763.4	862.9	959.0	1058.1	1114.3	1153.6	1155.2	1149.9
55°	708.0	801.8	890.1	985.6	1039.0	1069.6	1068.6	1070.6
57.5°	651.9	739.9	820.9	908.3	960.4	989.3	995.3	988.2
60°	594.8	677.4	750.0	829.0	879.4	903.6	910.6	903.9
62.5°	538.0	613.9	679.8	748.7	795.4	825.3	824.6	817.2
65°	481.2	550.1	608.9	667.3	708.0	737.9	736.6	729.8
67.5°	428.8	485.6	538.3	585.7	621.0	641.5	648.5	640.5
70°	371.0	420.0	466.4	504.4	533.6	552.1	558.8	551.8
72.5°	313.2	354.8	387.4	424.1	446.6	462.0	469.1	462.4
75°	256.0	290.3	316.9	345.4	361.2	374.3	382.4	375.7
77.5°	200.6	227.2	248.3	269.2	287.3	290.3	297.4	293.0
80°	147.9	167.0	182.5	196.2	209.3	210.7	216.4	213.7
82.5°	98.5	111.2	115.3	129.7	138.1	136.8	142.5	140.5
85°	52.1	59.8	66.9	71.2	75.9	71.6	76.6	74.6
87.5°	17.5	18.5	16.1	22.8	25.2	21.5	24.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)